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**UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office****ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS**
Washington, D.C. 20231DATE: 04/19/94
TO:

N05A

DANIEL C. MALLERY
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN
12400 WILSHIRE BLVD.
SEVENTH FLOOR
LOS ANGELES, CA 90025**RECEIVED**
MAY 16 1994BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN
LOS ANGELES**UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT**

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT BRANCH OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE U.S. PATENT AND TRADEMARK OFFICE ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT ASSIGNMENT PROCESSING SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT BRANCH, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231

ASSIGNOR:
NARAYANAN, SEKHARIPURAM R.

DOC DATE: 12/17/93

ASSIGNOR:
VAMOS, EUGENE

DOC DATE: 12/27/93

ASSIGNOR:
SURAMPUDI, SUBBARAO

DOC DATE: 12/27/93

ASSIGNOR:
HALPERT, GERALD

DOC DATE: 12/17/93

ASSIGNOR:
FRANK, HARVEY

DOC DATE: 12/17/93

RECORDATION DATE: 01/10/94 NUMBER OF PAGES 006 REEL/FRAME 6921/0845

DIGEST : ASSIGNMENT OF ASSIGNORS INTEREST

ASSIGNEE:
CALIFORNIA INSTITUTE OF TECHNOLOGY
1201 EAST CALIFORNIA BOULEVARD
PASADENA, CA 91125

6921/0845 PAGE 0002

SERIAL NUMBER 8-135007
PATENT NUMBER

FILING DATE 10/12/93
ISSUE DATE 00/00/00

PATENT NUMBER

ISSUE DATE 00/00/00

P. Foster

EXAMINER/PARALEGAL

ASSIGNMENT BRANCH

ASSIGNMENT/CERTIFICATION SERVICES DIVISION

FORM PTO-1595
1-31-92

RECORDATION FORM COVER SHEET

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

PATENTS ONLY

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Sekharipuram R. Narayanan, Eugene Vamos, Subbarao
Surampudi, Gerald Halpert and Harvey FrankAdditional name(s) of conveying party(ies) attached? Yes XX No

3. Nature of conveyance:

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ OtherExecution Date: December 17, 1993, December 27, 1993, December
27, 1993, December 17, 1993 and December 17, 1993, respectively.

2. Name and address of receiving party(ies):

Name: California Institute of Technology

Internal Address: _____

Street Address: 1201 East California BoulevardCity: Pasadena, State: California ZIP: 91125
Additional name(s) & address(es) attached?
☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application the execution date of the application is: N/A

A. Patent Application No.(s)

08/135,007

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: _____

Internal Address: BLAKELY, SOKOLOFF, TAYLOR & ZAFMANStreet Address: 12400 Wilshire BoulevardSeventh FloorCity: Los Angeles State: CA ZIP: 900256. Total number of applications and patents involved: one

7. Total fee (37 CFR 3.41) \$40.00

☒ Enclosed☒ Authorized to charged to deposit account

8. Deposit account number:

02-2666

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

93432332

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Daniel C. Mallery Reg. No. 33,532Name of Person Signing, Reg. No.
12467/42390.P014

Signature

Date

Total number of pages including cover sheet attachments and documents Four(4)I hereby certify that this correspondence is being deposited with the
United States Postal Service as Express Mail No.RB98458829771 addressed to: Commissioner of Patents and
Trademarks, Washington, DC 20531,
on January 10, 1994.January 10, 1994Margaret M. Hasson Date

3 361

40.00 OK

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

No. 5193

State of CALIFORNIACounty of LOS ANGELESOn Dec. 27, 1993
DATEbefore me, Elizabeth A. Snider
NAME, TITLE OF OFFICER - E.G., "JANE DOE, NOTARY PUBLIC"personally appeared Sekharipuram R. Narayanan & Eugene Vamos
NAME(S) OF SIGNER(S)

☐ personally known to me - OR - ☒ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) ~~is~~ are subscribed to the within instrument and acknowledged to me that ~~he/she~~ they executed the same in ~~his/her~~ their authorized capacity(ies), and that by ~~his/her~~ their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

SIGNATURE OF NOTARY

OPTIONAL SECTION

CAPACITY CLAIMED BY SIGNER

Though statute does not require the Notary to fill in the data below, doing so may prove invaluable to persons relying on the document.

- ☐ INDIVIDUAL
☐ CORPORATE OFFICER(S)

- TITLE(S)
☐ PARTNER(S) ☐ LIMITED
☐ GENERAL
☐ ATTORNEY-IN-FACT
☐ TRUSTEE(S)
☐ GUARDIAN/CONSERVATOR
☐ OTHER: _____

SIGNER IS REPRESENTING:

NAME OF PERSON(S) OR ENTITY(IES)

OPTIONAL SECTION

THIS CERTIFICATE MUST BE ATTACHED TO
THE DOCUMENT DESCRIBED AT RIGHT:TITLE OR TYPE OF DOCUMENT Assignment - Case C-19046 et alNUMBER OF PAGES 2 DATE OF DOCUMENT Dec. 27, 1993Though the data requested here is not required by law,
It could prevent fraudulent reattachment of this form.SIGNER(S) OTHER THAN NAMED ABOVE S. Surampudi, H.A. Frank & G. Halpert

RECEIVED 9271

Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

IN WITNESS WHEREOF I have set my hand this 17th day of Dec, 1993.

S. Surampudi

Subbarao Surampudi

STATE OF CALIFORNIA)

) ss:

COUNTY OF LOS ANGELES)

On this 17th day of Dec, 1993, before me, a Notary Public, personally appeared Subbarao Surampudi, who I am satisfied is the person named in and who executed the foregoing instrument in my presence and did acknowledge the same to be a voluntary act and deed for the uses and purposes therein expressed.



Elizabeth A. Snider
Notary Public

IN WITNESS WHEREOF I have set my hand this 17th day of Dec, 1993.

Sekharipuram R. Narayanan

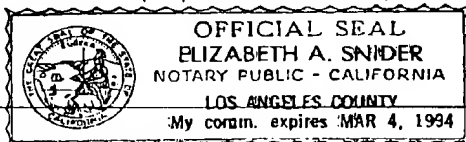
Sekharipuram R. Narayanan

STATE OF California)

) ss:

COUNTY OF Los Angeles)

On this 27th day of Dec, 1993, before me, a Notary Public, personally appeared Sekharipuram R. Narayanan, who I am satisfied is the person named in and who executed the foregoing instrument in my presence and did acknowledge the same to be a voluntary act and deed for the uses and purposes therein expressed.



Elizabeth A. Snider
Notary Public

IN WITNESS WHEREOF I have set my hand this 27th day of Dec, 1993.

Eugene Varnos

Eugene Varnos

STATE OF CALIFORNIA)

) ss:

COUNTY OF LOS ANGELES)

On this 27th day of Dec, 1993, before me, a Notary Public, personally appeared Eugene Varnos, who I am satisfied is the person named in and who executed the foregoing instrument in my presence and did acknowledge the same to be a voluntary act and deed for the uses and purposes therein expressed.



Elizabeth A. Snider
Notary Public

REEL 921 PAGE 848

No. 5193

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of CALIFORNIACounty of LOS ANGELESOn Dec. 17, 1993 before me,Elizabeth A. Snider

NAME, TITLE OF OFFICER - E.G., "JANE DOE, NOTARY PUBLIC"

personally appeared Subbarao Surampudi, Harvey A. Frank & Gerald Halpert
NAME(S) OF SIGNER(S)

☐ personally known to me - OR - ☒ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that ~~he/she~~ they executed the same in ~~his/her~~ their authorized capacity(ies), and that by ~~his/her~~ their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

SIGNATURE OF NOTARY

OPTIONAL SECTION

THIS CERTIFICATE MUST BE ATTACHED TO THE DOCUMENT DESCRIBED AT RIGHT:

TITLE OR TYPE OF DOCUMENT Assignment - Case C-19046 et al.NUMBER OF PAGES 2 DATE OF DOCUMENT December 17, 1993SIGNER(S) OTHER THAN NAMED ABOVE S.R. Narayanan & E. Vamos

Though the data requested here is not required by law, it could prevent fraudulent reattachment of this form.

OPTIONAL SECTION

CAPACITY CLAIMED BY SIGNER

Though statute does not require the Notary to fill in the data below, doing so may prove invaluable to persons relying on the document.

☐ INDIVIDUAL☐ CORPORATE OFFICER(S)

TITLE(S)

☐ PARTNER(S)☐ LIMITED☐ GENERAL☐ ATTORNEY-IN-FACT☐ TRUSTEE(S)☐ GUARDIAN/CONSERVATOR☐ OTHER: _____

SIGNER IS REPRESENTING:

NAME OF PERSON(S) OR ENTITY(IES)

IN WITNESS WHEREOF I have set my hand this 17th day of Dec, 1993.

Harvey A Frank

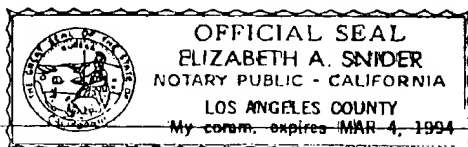
Harvey A. Frank

STATE OF CALIFORNIA

)
) ss:
)

COUNTY OF LOS ANGELES

On this 17th day of Dec, 1993, before me, a Notary Public, personally appeared Harvey A. Frank, who I am satisfied is the person named in and who executed the foregoing instrument in my presence and did acknowledge the same to be a voluntary act and deed for the uses and purposes therein expressed.



Elizabeth A. Snider
Notary Public

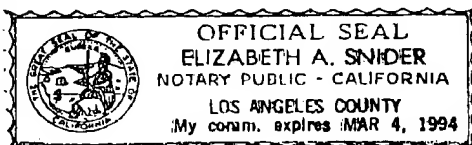
IN WITNESS WHEREOF I have set my hand this 17th day of Dec, 1993.

STATE OF CALIFORNIA

)
) ss:
)

COUNTY OF LOS ANGELES

On this 17th day of Dec, 1993, before me, a Notary Public, personally appeared Gerald Halpert, who I am satisfied is the person named in and who executed the foregoing instrument in my presence and did acknowledge the same to be a voluntary act and deed for the uses and purposes therein expressed.



Elizabeth A. Snider
Notary Public

REEL 6921 FRAME 850

RECORDED
PATENT & TRADEMARK OFFICE

JAN 10 94

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled ORGANIC FUEL-CELL METHODS AND APPARATUS, the specification of which

is attached hereto.

X was filed on June 7, 1995 as Application Serial No. 08/478,801

and was amended on _____.

☐ was described and claimed in PCT International Application No. _____

filed on _____ and as amended under PCT Article 19 on _____.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information I know to be material to patentability in accordance with Title 37, Code of Federal Regulations, §1.56(a).

I hereby appoint the following attorneys and/or agents to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: Scott C. Harris, Reg. No. 32,030, William E. Booth, Reg. No. 28,933; Karl Bozicevic, Reg. No. 28,807; Barry E. Bretschneider, Reg. No. 28,055; Paul T. Clark, Reg. No. 30,162; Peter J. Devlin, Reg. No. 31,753; Willis M. Ertman, Reg. No. 18,658; David L. Feigenbaum, Reg. No. 30,378; Janis K. Fraser, Reg. No., 34,819; John W. Freeman, Reg. No. 29,066; Timothy A. French, Reg. No. 30,175; Alan H. Gordon, Reg. No. 26,168; Scott C. Harris, Reg. No. 32,030; Mark J. Hebert, Reg. No., 31,766; Gilbert H. Hennessey, Reg. No. 25,759; Charles Hieken, Reg. No. 18,411; Robert E. Hillman, Reg. No. 22,837; G. Roger Lee, Reg. No. 28,963; Steven E. Lipman, Reg. No. 30,011; Gregory A. Madera, Reg. No. 28,878; Ralph A. Mittelberger, Reg. No. 33,195; Ronald E. Myrick, Reg. No. 26,315; Robert C. Nabinger, Reg. No., 33,431; Frank P. Porcelli, Reg. No. 27,374; Eric L. Prah, Reg. No. 32,590; Alan D. Rosenthal, Reg. No. 27,833; Richard M. Sharkansky, Reg. No. 25,800; John M. Skenyon, Reg. No. 27,468; Michael O. Sutton, Reg. No. 26,675; Rene D. Tegtmeyer, Reg. No. 33,567; Hans R. Troesch, Reg. No. 36,950; John N. Williams, Reg. No. 18,948; Gary A. Walpert, Reg. No. 26,098; Dorothy P. Whelan, Reg. No., 33,814; and Charles C. Winchester, Reg. No. 21,040.

Address all telephone calls to Scott C. Harris at telephone number 202/783-5070.

Address all correspondence to Scott C. Harris, Fish & Richardson P.C., 601 13th Street NW, Washington, D.C. 20005.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

COMBINED DECLARATION AND POWER OF ATTORNEY CONTINUED

Full Name of Inventor: Subbaya SUBRAMUDI
Inventor's Signature: S. Subbaya Date: 9/28/95
Residence Address: Glenadera, CALIFORNIA
Citizen of: INDIA
Post Office Address: 1210 E. Laporte Avenue, Glenadera, California 91760

Full Name of Inventor: Sathyanarayan R. NARAYANAN
Inventor's Signature: S. Narayanan Date: 09/29/95
Residence Address: Altadena, CALIFORNIA
Citizen of: INDIA
Post Office Address: 212 E. Wapello Street, Altadena, California 91001

Full Name of Inventor: Enrique VAMOS
Inventor's Signature: _____ Date: _____
Residence Address: La Canada, CALIFORNIA
Citizen of: USA
Post Office Address: 4929 E. Almirante Avenue, La Canada, California 91011

Full Name of Inventor: Harvey A. FRANK
Inventor's Signature: Harvey A Frank Date: 9/28/95
Residence Address: Encino, CALIFORNIA
Citizen of: USA
Post Office Address: 5328 New Castle Avenue, No. 33, Encino, California 91316

COMBINED DECLARATION AND POWER OF ATTORNEY CONTINUED

Full Name of Inventor: George HALPERT
Inventor's Signature: Gerald Halpert Date: 9-28-95
Residence Address: Burton, CALIFORNIA
Citizen of: USA
Post Office Address: 1000 E. California Boulevard, No. 304, Pasadena, California 91106

Full Name of Inventor: George A. OLAH
Inventor's Signature: _____ Date: _____
Residence Address: Brandy Hills, CALIFORNIA
Citizen of: USA
Post Office Address: 292 Glenview Way, Beverly Hills, California 90210

Full Name of Inventor: G. K. SURE PRAKASH
Inventor's Signature: _____ Date: _____
Residence Address: Hacienda Heights, CALIFORNIA
Citizen of: INDIA
Post Office Address: 1946 Deane Drive, Hacienda Heights, California 91742

Full Name of Inventor: _____
Inventor's Signature: _____ Date: _____
Residence Address: _____
Citizen of: _____
Post Office Address: _____

COMBINED DECLARATION AND POWER OF ATTORNEY CONTINUED

Full Name of Inventor: Gerald HALPERT

Inventor's Signature: _____ Date: _____

Residence Address: Pasadena, CALIFORNIA

Citizen of: USA

Post Office Address: 1000 E. California Boulevard, No. 304, Pasadena, California 91106

Full Name of Inventor: George A. OLAH

Inventor's Signature: _____ Date: 9/7/95

Residence Address: Beverly Hills, CALIFORNIA

Citizen of: USA

Post Office Address: 252 Gloaming Way, Beverly Hills, California 90210

Full Name of Inventor: G. K. Surya PRAKASH

Inventor's Signature: _____ Date: 9/10/95

Residence Address: Hacienda Heights, CALIFORNIA

Citizen of: INDIA

Post Office Address: 1946 Deepeak Drive, Hacienda Heights, California 91742

Full Name of Inventor: _____

Inventor's Signature: _____ Date: _____

Residence Address: _____

Citizen of: _____

Post Office Address: _____

CIT 2209-1

PATENT
ATTORNEY DOCKET NO: 06816/005002

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original and joint inventor (along with inventors Subbarao Surampudi, Sekharipuram R. Narayanan, Harvey A. Frank, Gerald Halpert, George A. Olah, G.K. Surya Prakash) of the subject matter which is claimed and for which a patent is sought on the invention entitled ORGANIC FUEL-CELL METHODS AND APPARATUS, the specification of which

- ☐ is attached hereto.
☐ was filed on June 7, 1995 as Application Serial No. 08/478,001 and was amended on December 1, 1995 and March 26, 1996.
☐ was described and claimed in PCT International Application No. _____ filed on _____ and as amended under PCT Article 19 on _____.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information I know to be material to patentability in accordance with Title 37, Code of Federal Regulations, §1.56(a).

I hereby appoint the following attorneys and/or agents to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: Scott C. Harris, 32,030, William E. Booth, Reg. No. 28,933; Barry E. Bretschneider, Reg. No. 28,055; John W. Freeman, Reg. No. 29,066; Timothy A. French, Reg. No. 30,175; Alan H. Gordon, Reg. No. 26,168; John F. Land, Reg. No. 29,554; John B. Pegram, Reg. No. 25,198; Rene D. Tegtmeyer, Reg. No. 33,567; Hans R. Troesch, Reg. No. 36,950; Dorothy P. Whelan, Reg. No. 33,814; Charles C. Winchester, Reg. No. 21,040.

Address all telephone calls to Scott C. Harris at telephone number 619/678-5070.

Address all correspondence to Scott C. Harris, Fish & Richardson P.C., 4225 Executive Square, Suite 1400, La Jolla, CA 92037.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Full Name of Inventor: Eugene VamosInventor's Signature: Eugene VamosDate: 8/21/96Residence Address: 53 Josephine Avenue, Somerville MA 02144Citizen of: USAPost Office Address: 8722 Belladonna Drive, Riverside CA 92508

ASSIGNMENT

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, We, the undersigned, Sekharipuram R. Narayanan, Eugene Vamos, Subbarao Surampudi, Gerald Halpert and Harvey Frank

Hereby sell, assign, and transfer to: California Institute of Technology a corporation of California, having a principal place of business at: 1201 East California Boulevard, Pasadena, California 91125 ("Assignee") its successors, assigns and legal representatives, our entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the application for United States Letters Patent,

☐ which has been executed by the undersigned concurrently herewith,

☒ which was filed October 11, 1993 and assigned Serial No. 08/135,007

and is entitled: ORGANIC FUEL CELL METHODS AND APPARATUS

and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said improvements; and in and to all rights of priority resulting from the filing of said United States application;

Agree that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths, assignments powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to the undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns and legal representatives; and